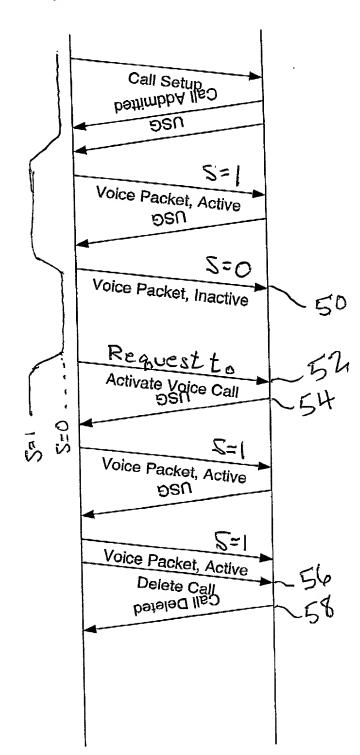


**Data Service** 

FIG.2A



Voice Service

FIG. 2B

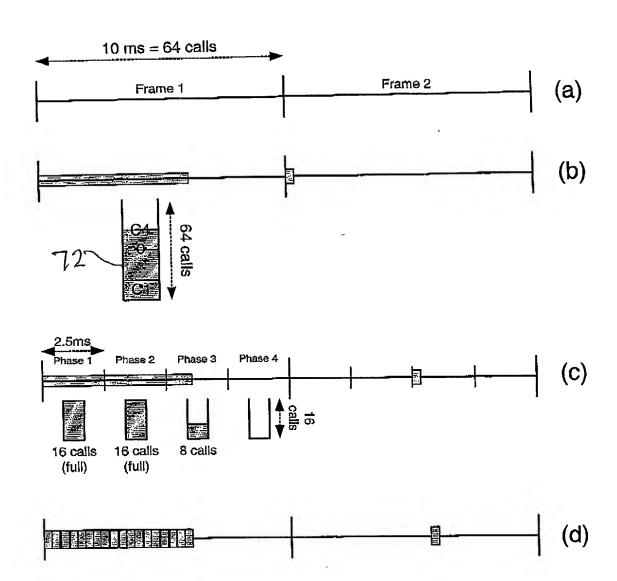


FIG. H

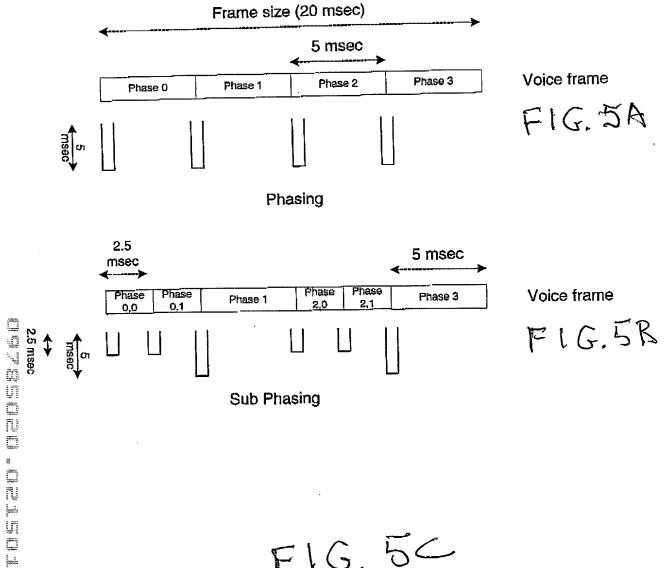
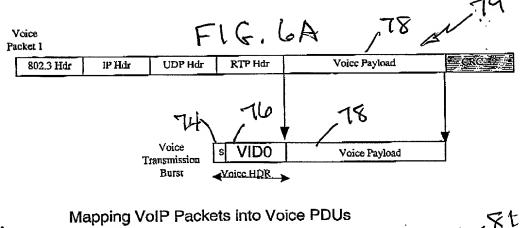
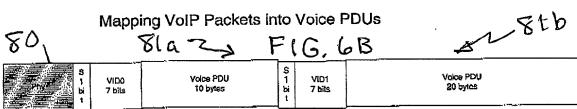


FIG. 5C

Call 1: CM1, VID0: 5ms, 16 Kbps = 2 MS (1:0) Call 2: CM2, VID0: 10ms, 32 Kbps = 4 MS (2:0) Call 3: CM3, VID0: 20ms, 32 Kbps = 7 MS (3:0) Call 4: CM4, VID0: 20ms, 32 Kbps = 7 MS (4:0) Call 5: CM1, VID1: 10ms, 16 Kbps = 3 MS (1:1) Call 6: CM2, VID1: 10ms, 16 Kbps = 3 MS (2:1)





Concatenation of two voice channels of different rates

FIG. 6C

S VID0 Voice PDU S VID1 Voice PDU PBI PB2

1 7 bits 10 bytes 1 7 bits 20 bytes 2 bytes

Concatenation of voice channels and piggybacking requests

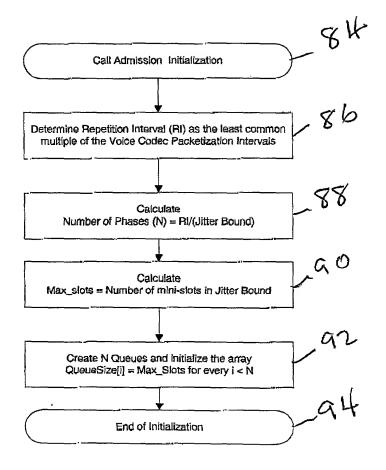
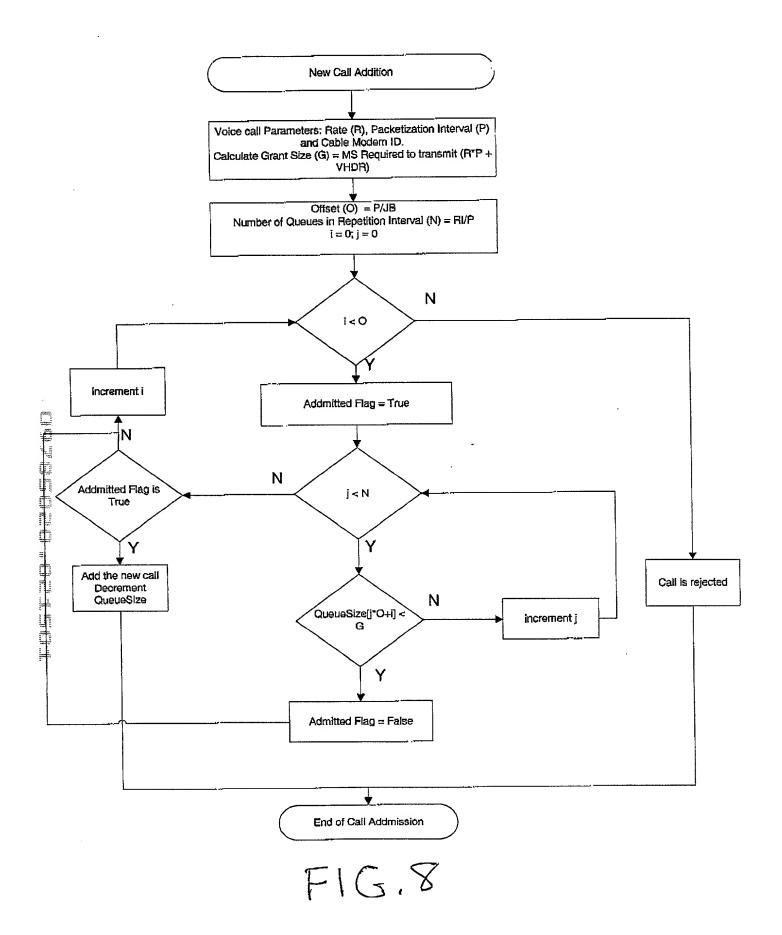
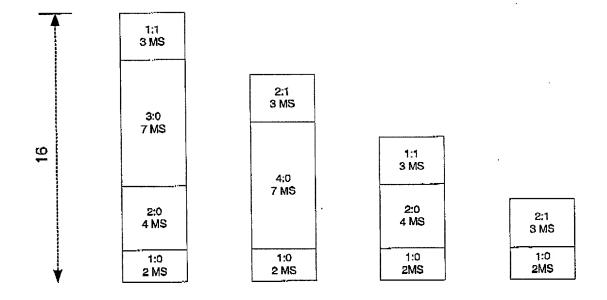


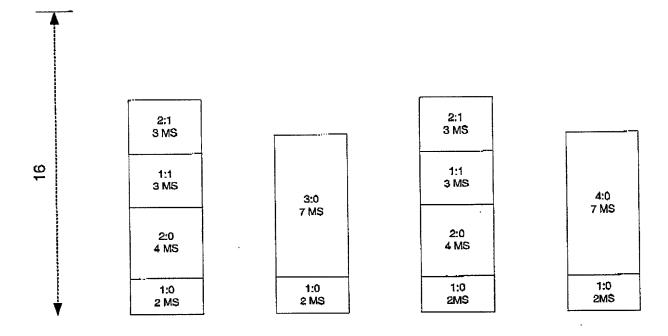
FIG. 7





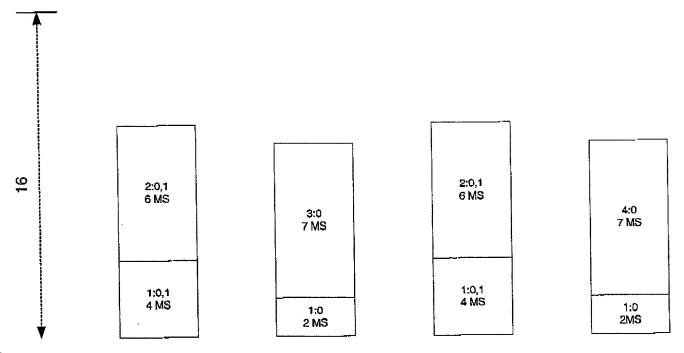
Call Admission: Unbalanced

FIG.9



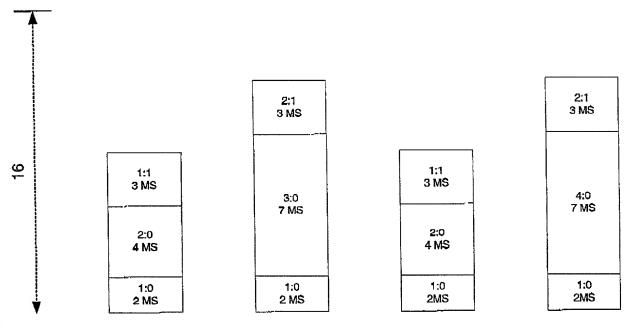
Call Admission: Balanced

FIG,10



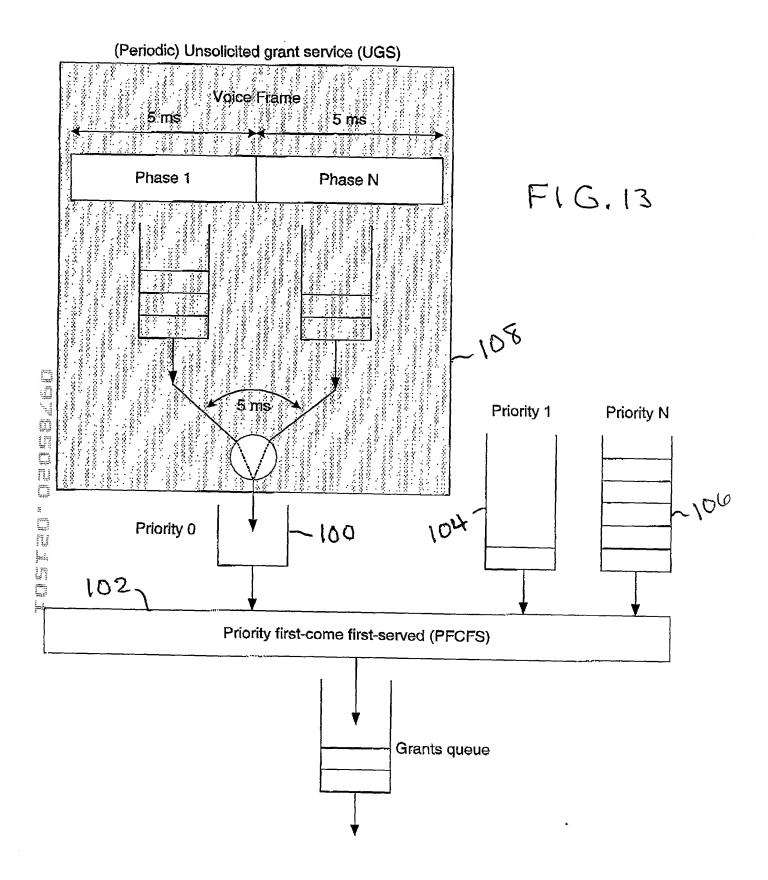
Call Admission: Balanced with Concatenation

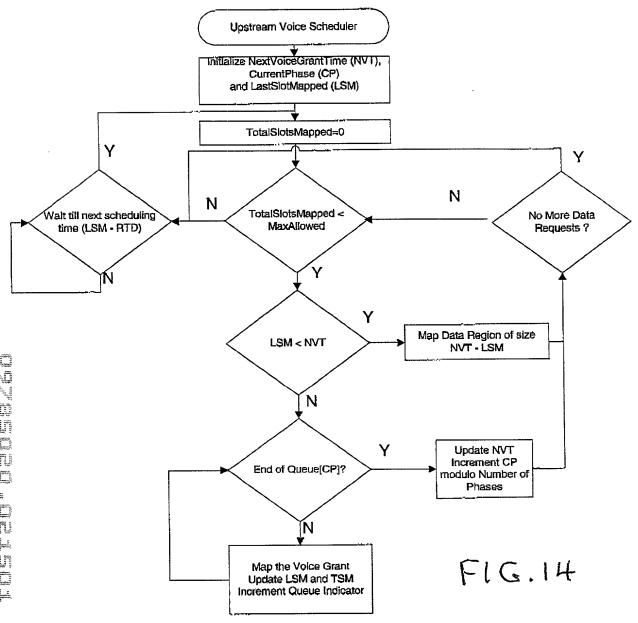
F1 G, 11

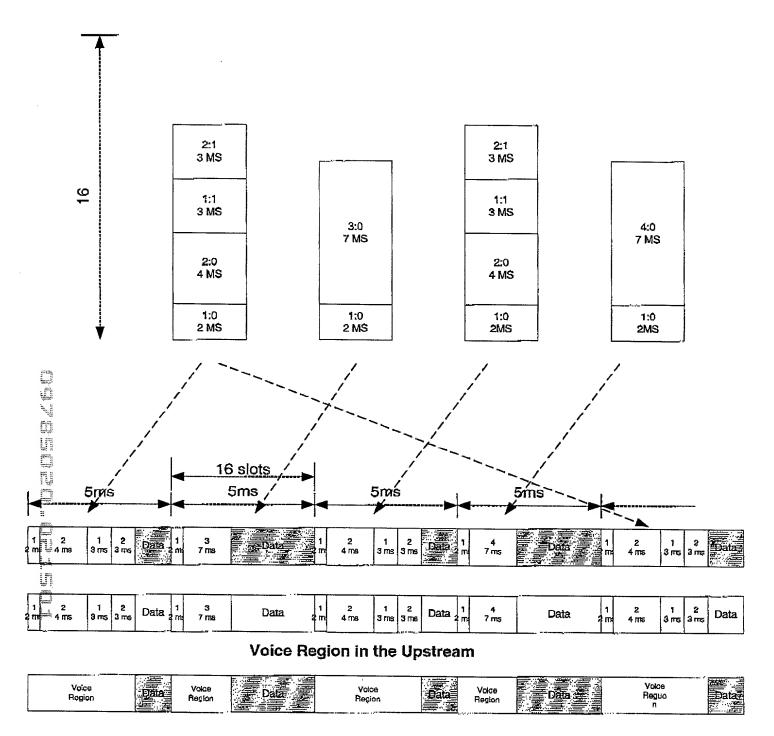


Call Admission: Balanced and Distributed CM Allocation

F1G,12





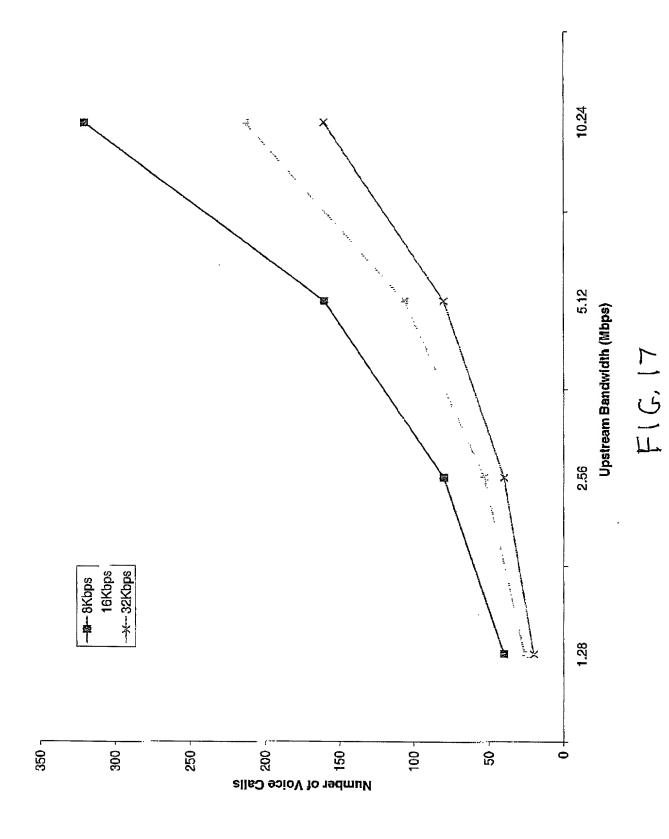


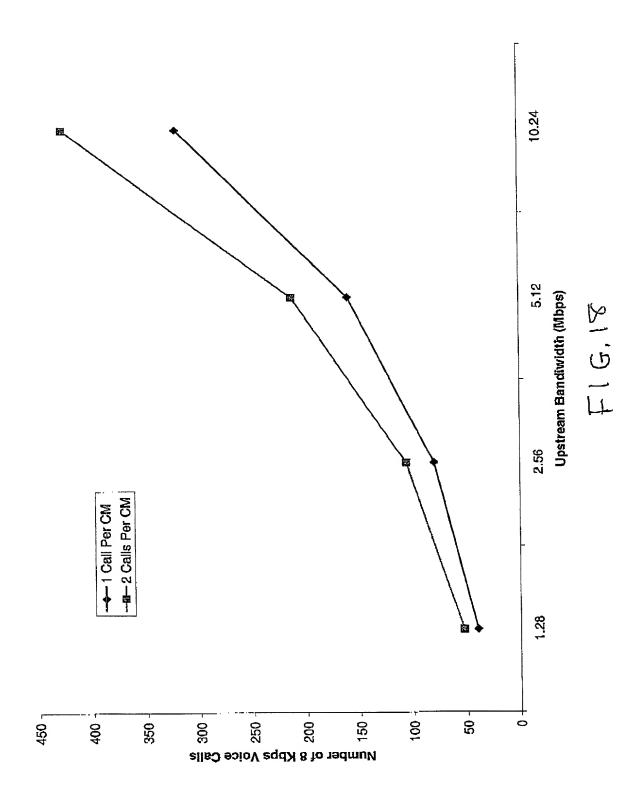
Data Region in the Upstream

Voice Scheduling: Mapping Voice State into Upstream Grants

F16.15

Packet 3 Pkt 4 mini-slot	phase A	Voice	kel 3 P4,f1 Voice P4,f2		ket 3 Pkt 4 Representation of the Voice		ket 3 Pkt 4 Voice		
	state phase B	Valce	Volce Packel 3	(a) Mapping: Strict Fragmentation	Volce P2 t2 Packet 3	(b) Mapping: Back to Back Voice Phases	Voice Packet 3	boundar	
sket 1   Page Packet 2   Page 1	se A Voice Frame st		Packet 1 Pck 2 /rg 1		Volce		Packet 1 Packet 2	(c) Mapping: Floating region	
Data Packets Packet 1	phase A	Voice	Voice	(a)	Packet 1 Pok 2, frg 1	(q)	Voice	(0)	





1200 JOED 12001 QUEUES

122 SWITCH

1240 1240 OUTPUT
QUEUES

FIG. 19